DAIKIN

EPCE04-01

# STYLE & COMFORT

## UX1

Daikin has more than 70 years of experience in manufacturing advanced, high quality air conditioning equipment for residential, commercial and industrial applications.

Daikin cares for our environment

Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues.

For several years Daikin has had the intention to become a leader in the provision of environmentally friendly products. This challenge demands the eco design and development of a wide range of products and an energy management system; which involves energy conservation and reduction of waste.

OPTIMISED DESIGN R-410A

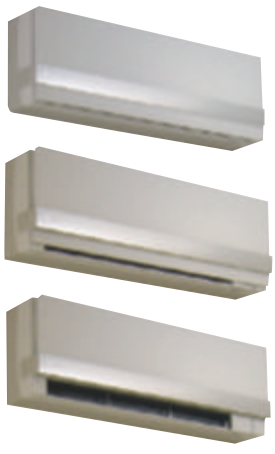
# UX1

In this brochure, you are introduced to the UX1, a sensational new air conditioning system by Daikin.
The UX1 is not only technologically ground-breaking, it also adds a new dimension of comfort to your life in a very distinctive, stylish way.

That is of course because of its unique combination of unparalleled technology and discrete design. Other winning ingredients of the UX1 are its optimum efficiency, extremely quiet noise level and draft-free operation.

The perfect balance between temperature, humidity, purity and air movement ... in one word: COMFORT. This is of course the result of various extremely advanced technological developments. Are you looking for an air conditioner with all these pluses? Daikin has the one !

## STYLISH & COMPACT DESIGN



For the first time in history, Daikin has succeeded in creating an indoor unit with such a sleek profile, that you won't believe it is an air conditioning unit.
In standby mode, the discharge opening is closed, resulting in a compact depth of only 15 cm.
When starting the unit up, the entire front panel slides smoothly open.

The front panel is made of clear material with a frosted surface, lending the unit a refined appearance with a cool luster. This adds a luxurious taste to the sleek compact stylishness.

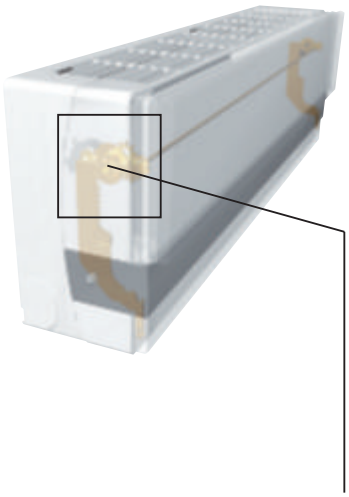
This new stylish wall mounted unit is available in 2 colour variations : mat crystal white or mat crystal silver.

In Japan, the UX1 has already won the 'Good Design Award 2003'. This award is Japan's only synthetic design evaluation/recommendation system and is sponsored by the Japanese Industrial Design Promotion Organisation.

GOOD DESIGN AWARD 2003 IN JAPAN

# SENSATIONAL THINNING TECHNOLOGY

Due to the use of a slide-opening system, a high efficiency slit fin heat exchanger and a brand new cross flow fan with a smaller diameter, Daikin achieved a 25% size reduction in the depth of the indoor unit.



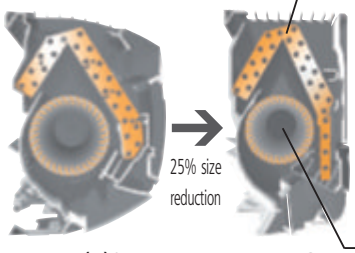
## SLIDE-OPENING SYSTEM :

Optimum air flow performance is ensured by the moving front panel. When starting the unit, the entire front panel slides outward to uncover the air inlet. At the same time, the flap deploys to reveal the air outlet. This innovative front panel design provides smooth movement and saves space.

The output from a single motor is devided into 2 shafts, and 3 gears transmit power to mechanisms on the left and right sides.

## HIGH EFFICIENCY SLIT FIN HEAT EXCHANGER:

Narrower gaps between the fins increase the available heat transfer surface area by 10%. The slit fin heat exchanger reduces air flow resistance to maintain top performance. The use of a single/dual row combined heat exchanger makes an even thinner design possible.



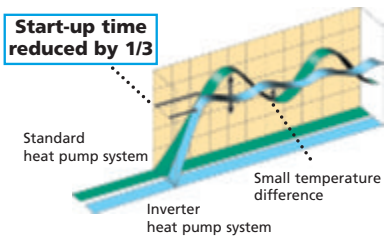

## MINIATURE CROSS FLOW FAN:

The blade configuration has been optimized to achieve quiet operation and powerful air flow, while reducing the fan's diameter by 20% compared to conventional models.

# SUPERB ENERGY EFFICIENCY

## INVERTER CONTROL:

Since several years, Daikin makes use of an integrated inverter control, ensuring maximum comfort and efficiency.

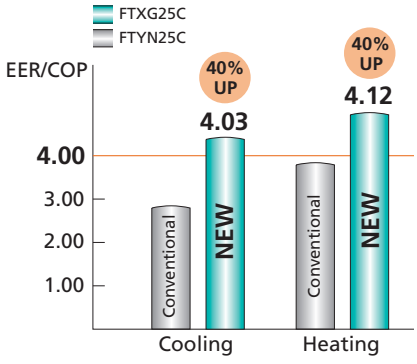



## SHORT START-UP CYCLE :

Inverter control enables the required room temperature to be achieved quicker than with non-inverter units, in fact, start-up time is reduced by one third.

## 30% LESS POWER CONSUMPTION :

The inverter controller detects changes in room or outdoor conditions and adjusts the indoor temperature to compensate within seconds. Rapid response reduces power consumption to 30% lower than that of non-inverter systems.




Daikin has further improved the energy efficiency. At the same time it realized substantial energy savings compared to conventional models by achieving an industrial top class EER of 4.03 and COP of 4.12.

EER : Energy Efficiency Ratio
COP : Coefficient of Performance

This superb energy efficiency is achieved by applying 3 innovative energy-saving technologies, PAM control, a reluctance DC motor and DC fan motor and a swing compressor.

PAM INVERTER CONTROL:

The PAM (Pulse Amplitude Modulation) inverter technology results in better cooling and heating performances and lower energy consumption. With a minimum of power input, you get a maximum of comfort.

RELUCTANCE DC MOTOR AND DC FAN MOTOR:

Achieves high efficiency by applying reluctance torque to a DC motor for outdoor units.

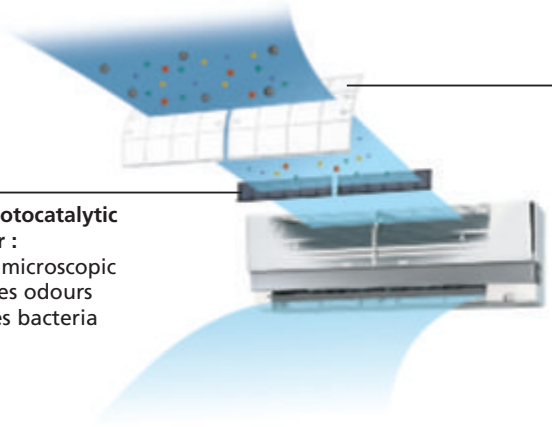
The DC fan motor and its fine rotation control greatly improve energy consumption.

SWING COMPRESSOR:

Energy efficiency is increased by avoiding operational friction and refrigerant gas leakage while minimizing the noise levels.

## CLEAN & COMFORTABLE AIR FLOW

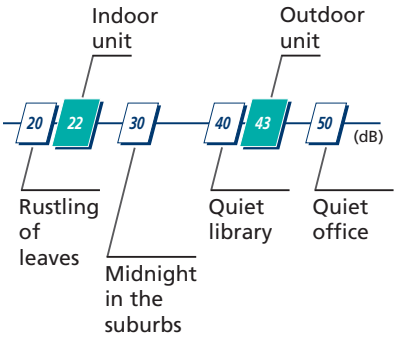
TITANIUM APATITE PHOTOCATALYTIC AIR PURIFICATION FILTER :
For the first time, a titanium apatite photocatalytic air purification filter is integrated in an air conditioning unit.
Micron-scale fibres trap dust while the titanium apatite absorbs organic contaminants such as bacteria and viruses. In addition, the titanium oxide is activated by natural light, allowing it to break down and eliminate odours. The filter effectively deactivates bacteria and viruses. It lasts for three years without replacement if washed about every six months.



**Air filter :**
catches dust.

**Titanium apatite photocatalytic air purification filter :**
thoroughly adsorbs microscopic particles, decomposes odours and even deactivates bacteria and viruses.

## CLEAN & COMFORTABLE AIR FLOW



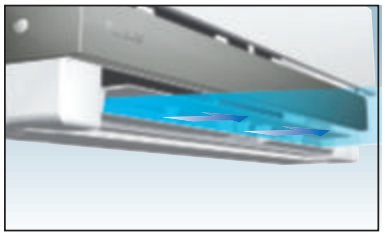

### SUPER QUIET :

The indoor/outdoor unit silent operation function brings us comfort by offering an industry top-level quiet operation of 22dB(A) for the indoor unit and 43dB(A) for the outdoor unit.

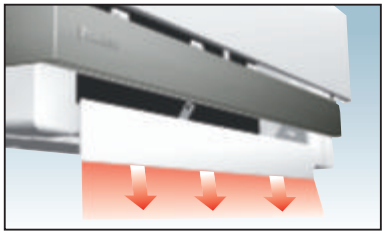
### COMFORT MODE :

This new 'Comfort mode' function reassures draft-free operation. The wide-angle distribution flap makes sure that cold or warm air is smoothly spread throughout the room.

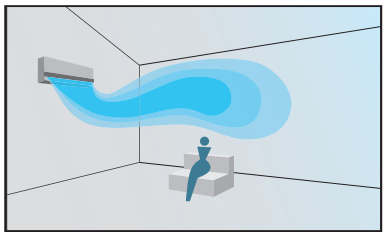
During cooling operation the flap angle turns horizontally to prevent cold air blowing directly on you, while during heating operation it turns downward vertically to send the warm air directly to the feet.

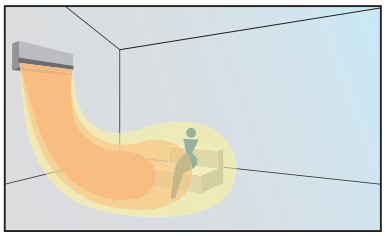


Cooling mode



Heating mode





# OTHER FEATURES

**Infrared remote control (standard)**
Infrared remote control with LCD to start, stop and regulate the air conditioner from a distance.

**Centralised control (optional)**
Centralised control to start, stop and regulate several air conditioners from one central point.

**Vertical auto swing**
Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution.

**Horizontal auto swing**
Possibility to select automatic horizontal moving of the air discharge louvre, for uniform air flow and temperature distribution.

**Auto-restart**
The unit restarts automatically at the original settings after power failure.

**Auto cooling/heating changeover**
Automatically selects cooling or heating mode to achieve the set temperature.

**Dry programme**
Allows humidity levels to be reduced without variations in room temperature.

**Auto fan speed**
Automatically selects the necessary fan speed to reach or maintain the set temperature.

**Fan speed steps**
Allows to select up to the given number of fan speed steps.

**24 Hour timer**
Timer can be set to start cooling/heating anytime during a 24-hours period.

**Night set mode**
Saves energy, by preventing overcooling or overheating during night time.

**Self-diagnosis**
Simplifies maintenance by indicating system faults or operating anomalies.

**Energy efficiency**
Daikin air conditioners are energy efficient and economical.

**Whisper quiet**
Daikin indoor units are whisper quiet.  Also the outdoor units are guaranteed not to disturb the quiet of the neighbourhood.

**Photocatalytic deodorising filter**
Removes airborne dust particles, decomposes odours and restrains the reproduction of bacteria, viruses, microbes, this to ensure a steady supply of clean air.

**Powerful mode**
If the temperature in the room is too high/low, it can be cooled down/heated quickly by selecting the 'powerful mode'.  After the powerful mode is turned off, the unit returns to the preset mode.

**Movement sensor**
The sensor detects whether someone is in the room. When the room is empty, the unit switches to economy mode after 20 minutes and restarts when a person enters the room.

**Outdoor unit silent operation**
Lowers the operation sound of the outdoor unit by 3dB(A) to ensure a quiet environment for the neighbourhood.

**Indoor unit silent operation**
Lowers the operation sound of the indoor unit by 3dB(A). This function is useful when studying or sleeping.

**Comfort mode**
The new flap changes the discharge angle horizontally for cooling operation and downward vertically for heating operation. This in order to prevent cold or warm air from blowing directly on the body.

## CAPACITY & POWER INPUT

| PAIR - HEAT PUMP (air cooled) | | | FTXG25CVMBW/S RXG25CVMB | FTXG35CVMBW/S RXG35CVMB |
|---|---|---|---|---|
| Capacity (min.-nom.-max) | cooling | kW | 1.3~2.5~3.0 | 1.4~3.5~3.8 |
| | heating | kW | 1.3~3.4~4.5 | 1.4~4.2~5.0 |
| Power input (min.-nom.-max) | cooling | kW | 0.30~0.620~0.95 | 0.30~1.060~1.29 |
| | heating | kW | 0.29~0.825~1.42 | 0.31~1.135~1.56 |
| EER | | | 4.03 | 3.30 |
| COP | | | 4.12 | 3.70 |
| Energy label | cooling | | A | A |
| | heating | | A | A |
| Annual energy consumption | cooling | kWh | 310 | 530 |

1) Energy label: scale form A (most efficient) to G (less efficient)
2) The Energy Label Directive 2002/31/EC will enter into force once the relevant measurement standard will be published in the European Official Standard.
3) Annual energy consumption: based on average use of 500 running hours per year at full load (=nominal conditions)

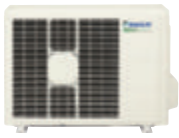
## SPECIFICATIONS INDOOR UNITS

| PAIR - HEAT PUMP | | | FTXG25CVMBW/S | FTXG35CVMBW/S |
|---|---|---|---|---|
| Dimensions (HxWxD) | | mm | 275x840x150 | |
| Weight | | kg | 9.0 | |
| Front panel colour | | | Mat crystal white (W) / Mat crystal silver (S) | |
| Air flow rate | cooling (H/L/SL) | $m^3$/min | 7.4/4.4/3.7 | 7.9/4.7/4.1 |
| | heating (H/L/SL) | $m^3$/min | 7.7/6.0/5.0 | 7.9/6.0/5.1 |
| Fan speed | | steps | 5 steps, silent and auto | |
| Sound pressure level | cooling (H/L/SL) | dB(A) | 38/25/22 | 39/26/23 |
| | heating (H/L/SL) | dB(A) | 38/28/25 | 39/29/26 |
| Sound power level | cooling (H) | dB(A) | 56 | 57 |

## CONTROL SYSTEMS & ACCESSORIES

| FTXG-C | | 25 | 35 |
|---|---|---|---|
| Wiring adapter for time clock/remote control (1) (normal open / open pulse contact) | | KRP413A1S | |
| Centralised control board | up to 5 rooms (2) | KRC72 | |
| Central remote control | | DCS302C51 | |
| Unified ON/OFF control | | DCS301B51 | |
| Schedule timer | | DST301B51 | |
| Interface adapter (3) | | KRP928A2S | |
| Air purification filter with deodorising function (with frame) | | KAF952A41 | |
| Air purification filter with deodorising function (without frame) | | KAF952A42 | |
| Anti-theft protection for remote control | | KKF917A4 | |

1) Wiring adapter is supplied by Daikin. Timer and other devices: field supply
2) Wiring adapter is also required for each indoor unit.
3) For DIII-NET adapter



## SPECIFICATIONS OUTDOOR UNITS

| PAIR - HEAT PUMP | | | | RXG25CVMB | RXG35CVMB |
|---|---|---|---|---|---|
| Dimensions (HxWxD) | | | mm | 550x765x285 | |
| Weight | | | kg | 32 | |
| Casing colour | | | | Ivory white | |
| Sound pressure level | cooling (H/L) | | dB(A) | 46/43 | 47/44 |
| | heating (H/L) | | dB(A) | 47/44 | 48/45 |
| Sound power level | cooling (H) | | dB(A) | 61 | 62 |
| Compressor | | | | Hermetically sealed swing type | |
| Maximum piping length | | | m | 20 | |
| Maximum level difference | | | m | 15 | |
| Standard operation range | cooling | from~to | °CDB | 10~46 | |
| | heating | from~to | °CWB | -15~20 | |

## ACCESSORIES

| RXG-C | 25 | 35 |
|---|---|---|
| Air direction adjustment grille | KPW937A4 | |

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

Daikin units comply with the European regulations that guarantee the safety of the product.

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

Daikin Europe N.V. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

Specifications are subject to change without prior notice.

Daikin products are distributed by:

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